WHAT IS CLAIMED IS:

1	1. A method for determining a genotype associated with increased or			
2	decreased resistance to familial bipolar affective disorder in a family affected by bipolar			
3	affective disorder, comprising:			
4	determining the genotype of at least one family member, wherein the			
5	genotype is determined with at least one marker for at least one chromosomal region linked			
16	to a locus associated with resistance to bipolar affective disorder, wherein the chromosomal			
5 16 17 18 19	regions are inclusive of and localized between D4S402 and D4S424; inclusive of and			
8	localized between D4S431 and D4S404; or inclusive and localized between D11S394 and			
9	D11S29;			
	determining, after the age of onset, the bipolar affective disorder disease			
10 11	status in the family member;			
12	comparing the genotype with the bipolar affective disorder disease			
12 13	status; and			
14	determining therefrom the genotype associated with increased or			
15	decreased resistance to bipolar affective disorder.			
1	2. The method of claim 1, wherein the genotype is determined with			

- 2 markers for at least two of the chromosomal regions.
- 1 3. The method of claim 2, wherein the genotype is determined with 2 markers for three of the chromosomal regions.
- 1 4. The method of claim 1, wherein the chromosomal region is inclusive of 2 and localized between markers *D4S422* and *D4S1625*.
- The method of claim 4, wherein the marker is D4S175, D4S422,
- 2 D4S1576, D4S2294, D4S1579, D4S397, D4S3089, D4S2965, D4S192, D4S420, D4S1644,
- 3 D4S3334, or combinations thereof.

1	6. The method of claim 1, wherein the chromosomal region is inclusive of			
2	and localized between markers D4S3007 and D4S419.			
1	7. The method of claim 6, wherein the marker is D4S3007, D4S394,			
2	$D4S2983$, $D4S2923$, $D4S615$, $AFM_{lpha}184za9$, $D4S2928$, $D4S1065$, $D4S1582$, $D4S107$,			
3	D4S3009, D4S2906, D4S2949, AFM087zg5, D4S2944, D4S403, D4S2942, D4S2984,			
4	D4S1602, D4S1511, D4S2311, D4S3048, or combinations thereof.			
1	8. The method of claim 7, wherein the marker is D4S3009, D4S2906,			
D4S2949, AFM087zg5, D4S2944, D4S403, D4S2942, D4S2984, D4S1602, D4S15				
13 13	D4S2311, or combinations thereof.			
= = 1	9. The method of claim 1, wherein the chromosomal region is inclusive of			
[] [_2	and localized between markers D11S133 and D11S29.			
1	10. The method of claim 9, wherein the marker is D11S133, D11S147,			
2	CD3D, D11S285, D11S29, or combinations thereof.			
1	11. The method of claim 1, wherein the genotype at a single chromosomal			
2	region is determined with at least three markers.			
1	12. The method of claim 1, wherein the marker is for a restriction fragment			
2	length polymorphism or microsatellite polymorphism.			
1	13. A kit for determining a genotype associated with increased or decreased			
2	resistance to familial bipolar affective disorder, wherein the kit comprises markers for two or			
3	more of the chromosomal regions:			
4	inclusive of and localized between D4S402 and D4S424;			
5	inclusive of and localized between D4S431 and D4S404; and			
6	inclusive and localized between D11S394 and D11S29.			

1	14. The kit of claim 13, wherein the markers are selected from the group		
2	consisting of:		
3	D4S175, D4S422, D4S1576, D4S2294, D4S1579, D4S397, D4S3089,		
4	D4S2965, D4S192, D4S420, D4S1644, D4S33334;		
5	D4S3007, D4S394, D4S2983, D4S2923, D4S615, AFM_{lpha} 184za9,		
6	D4S2928, D4S1065, D4S1582, D4S107, D4S3009, D4S2906, D4S2949, AFM087zg5,		
7	D4S2944, D4S403, D4S2942, D4S2984, D4S1602, D4S1511, D4S2311, D4S3048; and		
1. 18 113 113	D11S133, D11S147, CD3D, D11S285, D11S29.		
	15. The method of claim 1, wherein the marker is amplified.		
T.1	16. The method of claim 15, wherein the marker is amplified by the		
polymerase chain reaction.			
	17. The method of claim 1, wherein the presence or absence of an allele		
1	associated with increased resistance to bipolar affective disorder is determined.		
1	18. The method of claim 1, wherein the genotype of an affected family		
2	member is determined.		
1	19. The method of claim 1, wherein the genotype of a non-affected family		
2	member is determined.		
2	member is determined.		
1	20. The method of claim 1, further comprising:		
2	determining the genotype of at least one family member, wherein the		
3	genotype is determined with at least one marker for at least one chromosomal region linked		
4	to a locus associated with susceptibility to bipolar affective disorder, wherein the		
5	chromosomal regions are inclusive of and localized between D6S344 and D6S89; inclusive		
6	of and localized between D13S171 and D13S218; or at about D15S148.		

1	21. The method of claim 1, further comprising:		
2	determining the genotype of a tested individual from the affected		
3	family, wherein the genotype is determined with at least one marker for at least one		
4	chromosomal region linked to a locus associated with resistance to bipolar affective disorder		
5	wherein the chromosomal regions are inclusive of and localized between $D4S402$ and		
6	D4S424; inclusive of and localized between D4S431 and D4S404; or inclusive and localized		
_7	between D11S133 and D11S29;		
comparing the genotype of the tested individual to the genotype associated with increased or decreased resistance to bipolar affective disorder; and			
<u> </u>	associated with increased or decreased resistance to bipolar affective disorder; and		
10 11	determining therefrom the increased or decreased risk of the tested		
	individual developing familial bipolar affective disorder.		
	22. The method of claim 21, wherein the genotype of the tested individual is compared to the genotype of an affected family member.		
<u> </u> 1	23. A method for determining the contribution of a chromosomal region to		
2	the presence or absence of resistance to bipolar affective disorder in a family affected by		
3	bipolar affective disorder, comprising:		
4	determining the corresponding genotype of at least two family members		
5	wherein the genotype is determined with at least one marker for at least one tested		
6	chromosomal region linked to a locus associated with resistance to bipolar affective disorder,		
7	wherein the tested chromosomal regions are inclusive of and localized between D4S402 and		
8	D4S424; inclusive of and localized between D4S431 and D4S404; or inclusive and localized		
9	between D11S133 and D11S29;		
10	determining, after the age of onset, the bipolar affective disorder disease		
11	status in the family members;		
12	comparing the genotypes of the family members; and		
13	determining therefrom the contribution of the chromosomal region to		
14	the presence or absence of resistance to bipolar affective disorder in the family.		

1	24. A method for determining a genotype associated with increased or				
2	decreased resistance to familial bipolar affective disorder in a family affected by bipolar				
3	affective disorder, comprising:				
4	determining the genotype of at least one family member, wherein the				
5	genotype is determined with at least one marker for at least one chromosomal region linked				
to a locus associated with resistance to bipolar affective disorder, wherein the chron					
<u></u>	7 regions are inclusive of and localized between D4S402 and D4S424; inclusive of and				
8	localized between D4S431 and D4S404; or inclusive and localized between D11S133 and				
-9	D11S29;				
17 18 19 10	determining the genotype of at least one family member, wherein the				
11	genotype is determined with at least one marker for at least one chromosomal region linked				
12	to a locus associated with susceptibility to bipolar affective disorder, wherein the				
42 43	chromosomal regions are inclusive of and localized between D6S344 and D6S89; inclusive				
14	of and localized between $D13S171$ and $D13S218$; or at about $D15S148$;				
15	determining, after the age of onset, the bipolar affective disorder disease				
16	status in the family member;				
17	comparing the genotype with the bipolar affective disorder disease				
18	status; and				
19	determining therefrom the genotype associated with increased or				
20 decreased resistance to bipolar affective disorder.					
1	25. The method of claim 24, wherein the marker associated with				
2	susceptibility is D6S7, D13S1, D15S45, or combinations thereof.				
1	26. The method of claim 24, further comprising:				
2	determining the genotype of a tested individual from the affected				
3	family, wherein the genotype is determined with at least one marker for at least one				
4	chromosomal region linked to a locus associated with resistance to bipolar affective disorder				
5	wherein the chromosomal regions are inclusive of and localized between D4S402 and				

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6	D4S424; inclusive of and localized between D4S431 and D4S404; or inclusive and localized
7	between D11S133 and D11S29;
8	comparing the genotype of the tested individual to the genotype
9	associated with increased or decreased resistance to bipolar affective disorder; and
0	determining therefrom the increased or decreased risk of the tested
1	individual developing familial hipolar affective disorder

27. A kit comprising markers D6S7, D13S1, or D15S45 for performing the method of claim 24.